

FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 201130.40901/PP-17150.001	APPLICATION NO. 09/801,968
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>				APPLICANTS Nobuyuki Itoh and W. Michael Kavanaugh	
				FILING DATE March 7, 2001	GROUP ART UNIT Not yet assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
.							
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
CK	AK	WO 00/60085	10/12/00	WIPO		
CK	AL	WO 01/07595	02/01/01	WIPO		
CK	AM	WO 01/18209	03/15/01	WIPO		
	AN					
	AO					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CK	AP		Yamashita et al., "Identification of a Novel Fibroblast Growth Factor, FGF-23, Preferentially Expressed in the Ventrolateral Thalamic Nucleus of the Brain," <i>Biochem. Biophys. Res. Commun.</i> 277(2):494-498, October 22, 2000.
	AQ		
	AR		

EXAMINER	C. Saoud	DATE CONSIDERED	12/2/02
----------	----------	-----------------	---------

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FILE COPY

Hatch

Sheet 1 of 4

FORM PTO-1449 (REV.7-80)	MAY 9 2001	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 201130.40901/PP-17150.001	APPLICATION NO. 09/801,968
PATENT & TRADEMARK OFFICE		INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	APPLICANTS Nobuyuki Itoh et al.	
			FILING DATE March 7, 2001	GROUP ART UNIT Not yet assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	AB				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CA	AC	Baird et al., "The fibroblast growth factor family," <i>Cancer Cells</i> 3(6):239-243, June 1991.
	AD	Baloh et al., "Artemin, a novel member of the GDNF ligand family, supports peripheral and central neurons and signals through the GFR α 3-RET receptor complex," <i>Neuron</i> 21(6):1291-1302, December 1998.
	AE	Burgess et al., "The heparin-binding (fibroblast) growth factor family of proteins," <i>Annu. Rev. Biochem</i> 58:575-606, 1989.
	AF	Coulier et al., "The FGF6 gene within the FGF multigene family," <i>Ann. NY Acad. Sci.</i> 638:53-61, 1991.
	AG	Crossley et al., "The mouse Fgf8 gene encodes a family of polypeptides and is expressed in regions that direct outgrowth and patterning in the developing embryo," <i>Development</i> 121(2):439-451, 1995.
	AH	Dickson et al., "Expression, processing, and properties of int-2," <i>Ann. N.Y. Acad. Sci.</i> 638:18-26, 1991.
	AI	Dunnett et al., "Prospects for new restorative and neuroprotective treatments in Parkinson's disease," <i>Nature</i> 399(6738 Suppl):A32-A39, 1999.
	AJ	Duval et al., "Evidence that ventrolateral thalamotomy may eliminate the supraspinal component of both pathological and physiological tremors," <i>Exp. Brain Res.</i> 132(2):216-222, May 2000.
	AK	Elde et al., "Prominent expression of acidic fibroblast growth factor in motor and sensory neurons," <i>Neuron</i> 7(3):349-364, September 1991.
CA	AL	Emoto et al., "Basic fibroblast growth factor (FGF) in the central nervous system: identification of specific loci of basic FGF expression in the rat brain," <i>Growth Factors</i> 2(1):21-29, 1989.

EXAMINER	C Saoud	DATE CONSIDERED	12/2/02
----------	---------	-----------------	---------

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 201130.40901/PP-17150.001	APPLICATION NO. 09/801,968
O I P E MAY 09 2001 INFORMATION DISCLOSURE STATEMENT (If additional sheets are necessary)		APPLICANTS Nobuyuki Itoh et al.			
		FILING DATE March 7, 2001	GROUP ART UNIT Not yet assigned		

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	BB				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CA	BC	Ernfors et al., "Identification of cells in rat brain and peripheral tissues expressing mRNA for members of the nerve growth factor family," <i>Neuron</i> 5(4):511-526, October 1990.
	BD	Fallon et al., <i>The Rat Nervous System</i> , 2nd Ed., Academic Press, San Diego, CA, 1995, Chapter 12, "Substantia Nigra," pp. 215-238.
	BE	Gemel et al., "Structure and sequence of human FGF8," <i>Genomics</i> 35(1):253-257, July 1, 1996.
	BF	Gharavi et al., "IgA nephropathy, the most common cause of glomerulonephritis, is linked to 6q22-23." <i>Nature Genetics</i> 26:354-348, November 2000.
	BG	Ghosh et al., "Molecular cloning and characterization of human FGF8 alternative messenger RNA forms," <i>Cell Growth and Differentiation</i> 7(10):1425-1434, October 1996.
	BH	Goldfarb et al., "Expression and possible functions of the FGF-5 gene," <i>Ann. NY Acad. Sci</i> 638:38-52, 1991.
	BI	Gospodarowicz et al., "Heparin protects basic and acidic FGF from inactivation," <i>J. Cell. Physiol.</i> 128(3):475-484, September 1986.
	BJ	Gospodarowicz, "Isolation and characterization of acidic and basic fibroblast growth factor," <i>Methods Enzymol.</i> 147:106-119, 1987.
	BK	Haub et al., "Expression of the murine fibroblast growth factor 5 gene in the adult central nervous system," <i>Proc. Natl. Acad. Sci.</i> 87:8022-8026, October 1990.
	BL	Hoshikawa et al., "Structure and expression of a novel fibroblast growth factor, FGF-17, preferentially expressed in the embryonic brain," <i>Biochem. Biophys. Res. Commun.</i> 244(1):187-191, March 6, 1998.
CV	BM	Hyman et al., "Overlapping and distinct actions of the neurotrophins BDNF, NT-3, and NT-4/5 on cultured dopaminergic and GABAergic neurons of the ventral mesencephalon," <i>J. Neurosci.</i> 14(1):335-347, January 1994.

EXAMINER	C. Saoud	DATE CONSIDERED	12/2/02
----------	----------	-----------------	---------

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 201130.40901/PP-17150.001	APPLICATION NO. 09/801,968
INFORMATION DISCLOSURE STATEMENT <small>(Use separate sheets if necessary)</small>		APPLICANTS Nobuyuki Itoh et al.	
		FILING DATE March 7, 2001	GROUP ART UNIT Not yet assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA						

FOREIGN PATENT DOCUMENTS

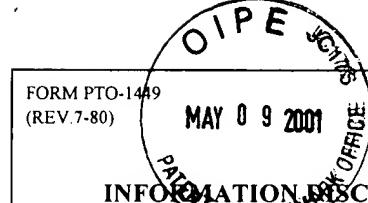
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	CB				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CA	CC	Hyman et al., "BDNF is a neurotrophic factor for dopaminergic neurons of the substantia nigra," <i>Nature</i> 350(6315):230-232, March 21, 1991.
	CD	Lin et al., "GDNF: a glial cell line-derived neurotrophic factor for midbrain dopaminergic neurons," <i>Science</i> 260(5111):1130-1132, May 21, 1993.
	CE	Lopez et al., "Basic fibroblast growth factor in a porcine model of chronic myocardial ischemia: a comparison of angiographic, echocardiographic and coronary flow parameters," <i>The Journal of Pharmacology and Experimental Therapeutics</i> 282(1):385-390, July 1997.
	CF	McWhirter et al., "A novel fibroblast growth factor gene expressed in the developing nervous system is a downstream target of the chimeric homeodomain oncoprotein E2A-Pbx1," <i>Development</i> 124(17):3221-3232, September 1997.
	CG	Milbrandt et al., "Persephin, a novel neurotrophic factor related to GDNF and neurturin," <i>Neuron</i> 20(2):245-253, February 1998.
	CH	Miyake et al., "Structure and expression of a novel member, FGF-16, on the fibroblast growth factor family," <i>Biochem. Biophys. Res. Commun.</i> 243(1):148-152, February 4, 1998.
	CI	Nishimura et al., "Structure and expression of a novel human FGF, FGF-19, expressed in the fetal brain," <i>Biochim. Biophys. Acta</i> 1444(1):148-151, January 18, 1999.
	CJ	Ohbayashi et al., "Structure and expression of the mRNA encoding a novel fibroblast growth factor, FGF-18," <i>J. Biol. Chem.</i> 273(29):18161-18164, July 17, 1998.
	CK	Ohuchi et al., "The mesenchymal factor, FGF10, initiates and maintains the outgrowth of the chick limb bud through interaction with FGF8, an apical ectodermal factor," <i>Development</i> 124(11):2235-2244, June 1997.
CA	CL	Pochon et al., "Neuronal GDNF expression in the adult rat nervous system identified by in situ hybridization," <i>Eur. J. Neurosci.</i> 9(3):463-471, March 1997.

EXAMINER	C. Saoud	DATE CONSIDERED
		12/2/02

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449
(REV.7-80)

MAY 09 2001

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
201130.40901/PP-17150.001APPLICATION NO.
09/801,968

INFORMATION & TRADEMARK DISCLOSURE STATEMENT

(several sheets if necessary)

APPLICANTS

Nobuyuki Itoh et al.

FILING DATE

March 7, 2001

GROUP ART UNIT

Not yet assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DA						
	DB						
	DC						
	DD						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	DE				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

OA	DF	Price, <i>The Rat Nervous System</i> , 2 nd Ed., Academic Press, San Diego, CA, 1995, Chapter 24, "Thalamus," pp. 629-648.
	DG	Smallwood et al., "Fibroblast growth factor (FGF) homologous factors: new members of the FGF family implicated in nervous system development," <i>Proc. Natl. Acad. Sci. USA</i> 93(18):9850-9857, September 3, 1996.
	DH	Tanaka et al., "Human androgen-induced growth factor in prostate and breast cancer cells: its molecular cloning and growth properties," <i>FEBS Lett.</i> 363(3):226-230, April 24, 1995.
	DI	Tanaka et al., "Cloning and characterization of an androgen-induced growth factor essential for the androgen-dependent growth of mouse mammary carcinoma cells," <i>P.N.A.S.</i> 89(19):8928-8932, October 1, 1992.
	DJ	Walicke, "Basic and acidic fibroblast growth factors have trophic effects on neurons from multiple CNS regions," <i>J. Neurosci.</i> 8(7):2618-2627, July 1988.
	DK	Woodward et al., "Nuclear and cytoplasmic localization of basic fibroblast growth factor in astrocytes and CA2 hippocampal neurons," <i>J. Neurosci.</i> 12(1):142-152, January 1992.
	DL	Yamamoto et al., "Structure and expression of a novel isoform of mouse FGF homologous factor (FHF)-4," <i>Biochim. Biophys. Acta</i> 1398(1):38-41, May 29, 1998.
	DM	Yamasaki et al., "Structure and expression of the rat mRNA encoding a novel member of the fibroblast growth factor family," <i>J. Biol. Chem.</i> 271(27):15918-15921, July 5, 1996.
CK	DN	Yoshida et al., "Characterization of the hst-1 gene and its product," <i>Ann. NY Acad. Sci.</i> 638:27-37, 1991.

EXAMINER

C. Saoud

DATE CONSIDERED

12/2/02

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 201130.40901/PP-17150.001	APPLICATION NO. 09/801,968
SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>				APPLICANTS Nobuyuki Itoh and W. Michael Kavanaugh	
				FILING DATE March 7, 2001	GROUP ART UNIT Not yet assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
CS	AK	WO 00/70046	11/23/00	WIPO	
CS	AL	WO 00/71577	11/30/00	WIPO	
CS	AM	WO 00/73454	12/07/00	WIPO	
CS	AN	WO 00/75317	12/14/00	WIPO	
	AO				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP		
AQ		
AR		

EXAMINER	C. Saoud	DATE CONSIDERED
		12/2/02

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FILE COPYCOPY OF PAPERS
ORIGINALLY FILED

Sheet 1 of 1

#11 attach

FORM PTO-1449
(REV.7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
201130.40901/PP-17150.001APPLICATION NO.
09/801,968

U.S. PATENT & TRADEMARK OFFICE
O I P E
THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT
FEB 13 2002
(Use several sheets if necessary)

APPLICANTS
Nobuyuki Itoh and W. Michael Kavanaugh
FILING DATE
March 7, 2001

GROUP ART UNIT
Not yet assigned**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						

RECEIVED

FEB 20 2002

TECH CENTER 1600/2900

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
CK	AK	WO 01/49740 A1	07/12/01	WIPO		
CK	AL	WO 01/61007 A2	08/23/01	WIPO		
	AM					
	AN					
	AO					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP		ADHR Consortium "Autosomal Dominant Hypophosphataemic Rickets is Associated with Mutations in FGF23," <i>Nature Genetics</i> 26(3):345-348, November 2000. <i>not complete -</i>
AQ		Muzny et al., Database EMBL, Accession No. AC008012, July 12, 1999. <i>missing pgs. 246-248.</i>
AR		Montgomery et al, Database EMBL, Accession No. AC015538, November 18, 1999.

EXAMINER

C. Saoud

DATE CONSIDERED

12/2/02

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).